

United States Government

Department of Energy (DOE)

# memorandum

Savannah River Operations Office (SR)

DATE: DEC 29 2008

REPLY TO


ATTN OF: EQMD (S. A. Danker, [803] 952-8603)

SUBJECT: National Environmental Policy Act (NEPA) 2009 Annual Planning Summary (APS) for DOE Savannah River Site (SRS)

TO: Frank Marcinowski, Deputy Assistant Secretary for Regulatory Compliance (EM-10), HQ

Attached is the NEPA 2009 APS for DOE-SRS, as required by DOE Order 451.1B, *NEPA Compliance Program*. The planning summary has been coordinated with the National Nuclear Security Administration at SRS that includes the Office of Site Engineering and Construction Management (NA-262) and the SRS Office. The availability of this planning summary will be announced to the public through the *SRS Environmental Bulletin*.

If you have questions, please contact me or have your staff contact Andrew R. Grainger, DOE-SRS NEPA Compliance Officer, at (803) 952-8001 or Steve Danker at (803) 952-8603.



Jeffrey M. Allison  
Manager

EQMD:SAD:rvf

EQMD-09-012

Attachment:  
NEPA 2009 APS for DOE-SRScc w/attach:  
Jeanie Loving (EM-11), HQ  
Mary E. Martin (NA-56), HQ  
David R. Hill (GC-1), HQ  
James Owendoff (EM-3), HQ  
Percy Fountain (EM-3.2), HQ

# Annual NEPA Planning Summary Environmental Assessments (EAs) Expected to be Initiated in the Next 12 Months

*Department of Energy (DOE) Savannah River Site (SRS)*

*Jan-09*

*Title, Location	Estimated Cost	Estimated Schedule (**NEPA Milestones)		Description
DOE SRS expects to initiate one or more new EAs over the next 12 months.		Determination Date:	uncertain	
		Transmittal to State:	uncertain	
		EA Approval:	uncertain	
	tbd	FONSI:	uncertain	
	<b>Total Estimated Cost</b>			
	tbd			

# Annual NEPA Planning Summary Environmental Impact Statements (EISs) and Supplement Analyses (SAs) Expected to be Initiated in the Next 24 Months

DOE SRS

Jan-09

*Title, Location	Estimated Cost	Estimated Schedule (**NEPA Milestones)		Description
Environmental Impact Statements, none		Determination Date:	n/a	
		notice of intent (NOI):	n/a	
		Scoping:	n/a	
		Draft	n/a	
		Hearings	n/a	
		Final	n/a	
		record of decision (ROD)	n/a	
		Determination Date:	n/a	
		NOI:	n/a	
		Scoping:	n/a	
		Draft	n/a	
		Hearings	n/a	
		Final	n/a	
		ROD	n/a	
Supplement Analysis, High-Level Waste Tank Closure at the Savannah River Site (DOE/EIS-0303-SA1)	\$20,000	Supplement Analysis:		DOE may prepare a Supplement Analysis to provide more realistic estimates of the environmental impacts of tank closure activities described in the High-Level Waste Tank Closure EIS (DOE/EIS 0303).
		Determination Date:	uncertain	
		Approval:	uncertain	
	<b>Total Estimated Cost</b>			
	\$20,000			

## Annual NEPA Planning Summary Status of Ongoing NEPA Compliance Activities: Environmental Assessments (EAs)

DOE SRS

Jan-09

*Title, Location	Estimated Cost	Estimated Schedule (**NEPA Milestones)		Description
EA for the Proposed Use of SRS Lands for Military Training (DOE/EA-1606)	\$90,000	Determination Date:	Oct-07	In accordance with an Interagency Agreement, DOE will prepare an EA to analyze the potential environmental consequences of the proposed use of SRS lands for military training. The purpose of the proposed action is to provide the U.S. Army with greater flexibility in developing training missions and strategies in response to rapidly changing world conditions. The scope of the proposed action includes evaluation of requirements for and environmental impacts from tactical training at SRS.
		Transmittal to State:	Mar-08	
		EA Approval:	Nov-09	
		FONSI:	Nov-09	
DOE SRS is not preparing any programmatic EAs (PEAs), is not supporting the preparation of any PEAs, and does not anticipate initiating any PEAs in the next 12 months.				
	Total Estimated Cost			
	\$90,000			

## Annual NEPA Planning Summary Status of Ongoing NEPA Compliance Activities: Environmental Impact Statements (EISs) and Supplement Analyses (SAs)

DOE SRS

Jan-09

*Title, Location	Estimated Cost	Estimated Schedule (**NEPA Milestones)		Description
<b>Stockpile Stewardship and Management Supplemental Programmatic EIS - Complex Transformation (DOE/EIS-0236-S4)</b>	tbd	Determination Date:	Apr-06	The National Nuclear Security Administration (NNSA) prepared a supplement to the Stockpile Stewardship and Management Programmatic EIS to address the environmental impact from the continued transformation of the nuclear weapons complex. The existing SRS tritium operations, including the Tritium Extraction Facility, as part of the No Action alternative; that is, those operations would continue at SRS. SRS was also evaluated as an alternative site for a Consolidated Plutonium Center for long-term research and development, surveillance, and manufacturing operations for a baseline capacity of 125 pits per year. A scoping meeting for the EIS was held on November 9, 2006, in North Augusta, SC. The Modern Pit Facility EIS was cancelled with the notice of intent to prepare the Complex Transformation EIS. The draft PEIS was published in January 2008 and a public hearing was held in North Augusta, SC, on February 21, 2008. The Final SPEIS was made available on October 24, 2008. The preferred alternative includes transfer of LANL tritium research to SRS.
		NOI:	Oct-06	
		Scoping:	Nov-06	
		Draft	Jan-08	
		Hearings	Feb/Mar08	
		Final	Oct-08	
<b>Programmatic EIS for Disposition of Scrap Metals (DOE/EIS-0327)</b>	n/a	ROD	Dec-08	DOE will evaluate alternatives for disposition of DOE scrap metals that may have been in radiological areas. The disposition options to be analyzed include continuation of the suspension on unrestricted release of metals for recycling, unrestricted release of scrap metals for recycling, and disposal. The draft PEIS has not been issued and the schedule is uncertain.
		Determination Date:	Jan-01	
		NOI:	Jul-01	
		Scoping:	Oct-01	
		Draft	delayed	
		Hearings	tbd	
		Final	delayed	
<b>Supplemental EIS, Plutonium Disposition at SRS (DOE/EIS-0283-S2)</b>	\$1,500,000	ROD	delayed	DOE will prepare a SEIS to evaluate the potential environmental impacts of plutonium disposition capabilities that would be constructed and operated at SRS. DOE will evaluate alternatives for disposition of 13 metric tons of surplus non-pit plutonium and 9 metric tons of plutonium declared surplus in September 2007. Alternatives include processing in H-Canyon, disposition using the Mixed Oxide Fuel Fabrication Facility, and a can-in-canister vitrification process. Although the Under Secretary designated a preferred alternative in June 2008, the Department is continuing to evaluate additional alternatives. The draft EIS has not been issued and the schedule is uncertain.
		Determination Date:	Aug-06	
		NOI:	Mar-07	
		Scoping:	Apr-08	
		Draft	delayed	
		Hearings	tbd	
		Final	delayed	

## Annual NEPA Planning Summary Status of Ongoing NEPA Compliance Activities: Environmental Impact Statements (EISs) and Supplement Analyses (SAs) (cont)

DOE SRS

Jan-09

*Title, Location	Estimated Cost	Estimated Schedule (**NEPA Milestones)		Description
<b>EIS for the Disposal of Greater-Than-Class-C Low-Level Radioactive Waste (GTCC LLW)</b> <b>DOE/EIS-0375</b>	tbd	Determination Date:	May-05	DOE will evaluate GTCC LLW disposal in a geologic repository, in intermediate depth boreholes, and in enhanced near surface disposal facilities. Candidate locations for these disposal facilities would be: the Idaho National Laboratory in Idaho; the Los Alamos National Laboratory and Waste Isolation Pilot Plant in New Mexico; the Nevada Test Site and the proposed Yucca Mountain repository in Nevada; the Savannah River Site in South Carolina; the Oak Ridge Reservation in Tennessee; and the Hanford Site in Washington. DOE would also evaluate generic commercial disposal at arid and humid locations. In addition, DOE proposes to include DOE LLW and transuranic waste having characteristics similar to GTCC LLW and which may not have an identified path to disposal (hereafter referred to as GTCC-like waste) in the scope of this EIS. DOE's GTCC-like waste is owned or generated by DOE. The use of the term "GTCC-like" does not have the intent or effect of creating a new classification of radioactive waste. The NOI is available on the internet at <a href="http://www.eh.doe.gov/nepa">http://www.eh.doe.gov/nepa</a> . Additional information on the GTCC LLW EIS can be found at <a href="http://www.gtcceis.anl.gov">http://www.gtcceis.anl.gov</a> .
		Advance NOI:	May-05	
		Scoping:	Jul-07	
		Draft	May-09	
		Hearings	tbd	
		Final	Jun-10	
<b>Supplement Analysis, Highly Enriched Uranium and Spent Nuclear Fuel Management</b> <b>(DOE/EIS-0203-F-SA-03)</b> <b>(DOE/EIS-0279-SA-01)</b>	\$40,000	ROD	tbd	DOE has drafted a Supplement Analysis to summarize the environmental impacts of the continued operation of H-Canyon and associated facilities to prepare HEU, and HEU recovered from spent nuclear fuel, for disposition. DOE would continue to use the H-Canyon facility to process SNF and HEU materials and blend the HEU down to LEU for use as feedstock for fabrication of commercial nuclear fuel. The SA would also evaluate the impacts of the SRS - INL fuel swap. An amended ROD is needed to chemically process aluminum-clad SNF in H-Canyon.
		Supplement Analysis:		
		Determination Date:	Oct-06	
		Approval:	Feb-09	

## Annual NEPA Planning Summary Status of Ongoing NEPA Compliance Activities: Environmental Impact Statements (EISs) and Supplement Analyses (SAs) (cont)

DOE SRS

Jan-09

<b>Programmatic EIS for the Global Nuclear Energy Partnership (GNEP)</b> <b>DOE/EIS-0396</b>		Determination Date:	Mar-06	DOE will evaluate technologies that would change the way spent nuclear fuel from commercial light-water power reactors is managed. GNEP originally included programmatic evaluations of three facilities. The nuclear fuel recycling center would separate the spent nuclear fuel (SNF) into its reusable and waste components and manufacture new nuclear fuel using reusable components that still have the potential for use in nuclear power generation. The advanced recycling reactor would destroy long-lived radioactive elements in the fuel while generating electricity. The advanced fuel cycle research facility would perform research into SNF recycling processes and other aspects of advanced nuclear fuel cycles. There were six candidate DOE sites, including SRS, for this facility. The draft PEIS was published in October 2008. The draft PEIS does not address siting of any facilities. A public meeting was held on December 4 at Aiken Technical College. The remaining schedule is uncertain.
		Advance NOI:	Mar-06	
		Scoping:	Feb-07	
		Draft	Oct-08	
		Hearings	Nov-08 - Mar-09	
		Final	delayed	
	tbd	ROD	delayed	
	<b>Total Estimated</b>			
	\$1,540,000			